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PO BOX 1450
Alexandria VA. 22313

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DFW

Notice: Change of address.

To whom it may concern

As of 9-29-05 Please sent all future correspondence to my new address as below.

John Ghazarian
2575 W. Horizon Ridge PKWY. #1611
Henderson NV. 89052
Phone: 702-4507946 Fax: 702-4507956
e-mail: universalmkt@cs.com

Sincerely

John Ghazarian



Application/Control No; 10/669,336

Art Unit 2636

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p.o. box 1450

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On Sept. 30 – 2005

John Ghazarian

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant John Ghazarian

Application No. 10/669,336

Art Unit 2636

Examiner Jennifer A. Stone

In response to Patent office objection relating to claims and Abstract language, election
Caused Patent claims 1 – 2 - 3 amended. And Abstract wording has been amended to be
in compliances, using wordings between 50 to 150.



Even though prior art teachings found to be useful and contains some of teachings found in the present art, it is clear none of the prior art teachings have or represents a safety door system which is designed to avoid human body parts such as finger(s) being caught in between door and door frame, by the use of a door and door frame edge mount conductive material which is designed to sense human touch, attached to a control unit which measure resistive value change caused by human body touch to determine presence of human body parts being located on a door inner frame or door edge.

For example prior art US patent 4,143,367 to Schestag, where a door safety device for limiting the movement of power operated doors, utilizing a resilient member attached to door edge, on contact with the edge of door, the resilient member deforms allowing two electrodes to contact, and gives rise to increased current, which is used as control signal to inhibit further movement of the door.

US Patent 5,799,533 to Seki, et al. where a distributed pressure sensor such that wire-like electrode member is arranged so electrode surface alternately appear on the surface or the rear of a sheet-shaped pressure sensitive electrically conductive material.

US Patent 4,745,301 to Michalchik, where a pressure sensitive electro-conductive material is utilized as a pressure sensitive electro-conductive switch. The switch comprises two electrodes with a deformable pressure sensitive electro-conductive material sandwiched between the electrodes.

US Patent 6,121,869 to Burgess, where a pressure activated switching device includes an electrically insulated standoff position between two conductive layers. The pressure activated switching device is used in safety sensing edge system for a movable door.

US Patent 2002/0088283 A1 to Kume, Where load sensor pinch detection comprises of an elastic conductive tube with a center electrode member is utilized as switching means.

US Patent 2002/0109591 A1 to Tracy et al. where is disclosed a sensing means for controlling the movement of a component which is provided with a sensor, which outputs a signal which varies upon deflection of a sensor.

All above prior art teaching found to be utilizing different methods and skills to provide a safety device, mainly applicable in limiting the movement of doors on contact with an obstacle. By use of pressure sensitive sensor switch means, made of a resilient (Elastic) members having electrodes, the electrodes make contact when resilient member deforms on pressure. As illustrated, prior art teaching are useful in applications such as a garage door, an elevator or rapid transit vehicle door Etc. where a motorized doors having door edge mount pressure-sensing switch, designed for slow moving door closure.

Example, when an obstacle gets caught between a door jam, the elastic material deforms, thus making electrodes to make contact, and the control unit stops the door from closure, or reverse the motor to open the door and provide safety.

Contrary to present invention teaching, where a doorframe and door edge mount conductive material is not necessarily made of resilient material, neither requires to deform under pressure to serve as a safety sensing switch. The Conductive material used in present art is being conductive and is connected to a control unit processor, which is designed to monitor said door edge mount conductive material resistance. When a human body (Limp) parts touches without even putting pressure on said conductive material, the human body resistance causes a change in resistive value of said conductive material, such resistance value changes are detected by said control unit processor, which upon detection transmits an audiovisual alarm signal to warn individual closing the door “not safe to close the door” or in case an electromechanical solenoid door stopper (Not a motor) is being used, the control unit stops the door from closure.

If one presumes, in an automobile or a house door, a method similar to prior art teaching

was used, and a child having there hands or finger touching the vehicle door frame, where prior art "elastic sensor materials" was used as a safety detection member, and presume the child was not pushing hard enough on vehicle door frame mount member to create deformation so the sensor member detects the presence of the child hand, thus no alarm signal is generated by said vehicle safety door control unit. The parent without realizing their child hand or finger is located within said vehicle doorframe, the parent slam's the vehicle door, and child's fingers get caught in said vehicle's door jam. The use of prior art safety system in such incident will be a total failure.

Since present art, safety door control unit monitors said door mount conductive material resistive value changes, such as a human body touch generates a resistive value change of said conductive material. If present art was used in the example above where prior art methods were illustrated as an example, the parent will have been warn prior to closing said vehicle door, even if the child was only touching said vehicle door or door frame without the need of pushing hard on sensor member, and child's hand or finger will have been spared from injury.

It is according to primary objective of present invention to provide an improved door safety mechanism which is primarily is designed to prevent unsafe door closure and primarily to avoid bodily injury during a manual door closure, by initiating audiovisual alarms, or by electromechanically (Solenoid gear stopper) stopping a manual door closure, when human body touch is detected by a door frame or door edge mount conductive material, and a control unit is used to ascertain safety door closure.